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July 1986

UTILIZATION AND MARKETING

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MONTANA FOREST PRODUCTS BULLETIN

Department of State Lands, Division of Forestry
2705 Spurgin Road, Missoula, Montana 59801
Ph: (406) 728-4300

GARY G. BROWN, State Forester

PAUL MOORE, Editor

VOL. 11, NO. 4

JULY - 1986

This bulletin is mailed primarily to individuals engaged in the Forest Products Industry in Montana. In addition, it is mailed to county agents, lumber brokers, wholesalers, dealers of sawmill and logging equipment, educators, and Montana Tree Farmers, as well as the Departments of Forestry in many states.

The purpose of this newsletter is to communicate information regarding the properties and uses of wood products, promote efficiency in the utilization of wood from the stump to the end product, and to serve as a information source for members of the forest products industry.

All persons receiving this newsletter are asked to examine their mailing address and advise this office of any corrections needed for proper mailing.

FOREST PLANNING, TIMBER SUPPLY SITUATION DETAILED IN 'A GROWING CONCERN'

PORTLAND, Ore. -- National forest plans currently being developed by the U.S. Forest Service should more fully consider the needs of citizens in forest-based communities in the west, according to a briefing paper recently published by Western Wood Products Association.

"A Growing Concern" details the role of western forests in the region's economy and calls for a balanced approach to national forest management that is responsive to the nation's wood product needs and, at the same time, can provide for recreation and wildlife. The four-page document explains the wood products industry's contribution to the region's economy, including jobs and tax revenues, how proposed reductions in timber harvest levels would impact rural and urban communities in the West.

"National forests provide nearly half of the timber processed by the wood products industry in the West. Demand trends indicate the need for more, rather than less, timber from national forests in the near future. Reductions in timber harvest levels would seriously impair the industry's ability to remain a major contributor to the region's employment and tax base," said Rus Fredsall, director of environment and resources for WWPA.

Fredsall urged more public involvement in the forest planning process because of the plans' economic impact.

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"The decisions being made on national forest plans will affect thousands of people for decades to come. Western citizens should have a voice in determining the economic livelihood of their region. Their needs must be more fully considered with other forest use needs in the plans," he said.

Copies of the briefing paper are available from WWPA. Contact Robert (Butch) Bernhardt, Jr., WWPA director of industry communications, 1500 Yeon Building, Portland, Ore. 97204, phone (503)224-3930

TOTAL MECHANICAL HARVESTING

The Sully Timber Sale on the Flathead National Forest is a special administrative use sale designed to collect cost and production data for mechanized harvesting equipment. Equipment to be used on this sale includes a feller-buncher capable of operating on slopes to 50 percent, a clambunk forwarder capable of carrying 10 ton loads up to 2200 feet, a conventional rubber tired skidder for short skid distances, a delimber-processor for tree length processing to log length loads, and a mechanical scarifier.

Because of the environmental and economical concerns regarding timber harvest in the northern Rocky Mountain forest, alternative methods have to be used which will minimize adverse and costly conditions. Less roads will have to be built and brush disposal costs are greatly reduced because full length trees removed to a landing where the trees are delimbed and bucked into log truck lengths.

The environmental savings include less roads needing to be built, less compaction of soil, and less need to establish skid trails because of low ground pressure and fewer trips needed to log out an area.

For an informational tour of this active sale contact Ken Kilborn, Forest Products Utilization and Marketing Specialist, USDA Forest Service, P.O. Box 7669, Missoula, Montana 59807, phone (406)329-2508.

PROTECTING WOOD SHINGLE AND SHAKES FROM FIRE

One of the distinct advantages of using wood for a roof covering is its remarkable resistance to weathering. Some of the wood shingles on the roofs of seventeenth century houses in Massachusetts Bay, MA, are about 300 years old. This high natural durability to the effects of water, wind, sunlight, and temperature change, together with good insulation effect a desirable appearance, have continued to keep wood shingles and shakes in demand for residential roofing. Unfortunately, some large fires involving untreated wood roofs have occurred and have been widely publicized. This resulted in building codes in some localities requiring wood shingles to be fire-retardant treated.

The Forest Products Laboratory undertook a study both to examine the effectiveness of potential treatments and to evaluate the durability of these treatments after outdoor weathering. This effort produced a number of publications, two of them are titled "Evaluation of Fire-Retardant Treatment For Wood Shingles," USDA FPL 158 and "Exterior Weathering Durability of Some Leach Resistant Fire-Retardant Treatments for Wood Shingles: A Five-Year Report" FPL 403.

These reports indicate that fire-retardant chemicals need to be deposited into the wood or on the surface in relatively large quantities in order for the fire-retardant chemicals to be effective in preventing early ignition and control of flame spread. Simple dip, brush or spray-applied water solutions of fire-retardant

chemicals usually do not put enough chemical into the wood to provide effective fire retardancy. For exterior applications where rainfall can quickly leach away the chemicals, water-soluble chemicals may not be effective for more than one or two years depending on the amount of chemical deposited and amount of rainfall. An insufficient application of fire-retardant chemicals may give a false since of security that could prove to be dangerous.

For new installations, the pressure impregnation process has shown to be an effective method. Robert White, Wood Scientist at the FPL, recommends about 3 to 6 pounds of dry fire-retardant chemicals per cubic foot of wood are adequate in order to meet most code requirements.

The following is a list of some of the self-help fire-retardant treatments that are or have been available for exterior use. Manufacturers should be contacted for fire performance information and for recommended application procedures:

"Bar-Flame 606"
Barnard Chemical Company
2405 West Fourth Street
Los Angeles, CA 90057

"California No. 64"
California Flameproofing
& Processing Co.
170 N. Halstead Street
Pasadena, CA 91107

"Firehold"
Flamort Chemical Co.
746 Natoma Street
San Francisco, CA 94103

"Shingle-Safe"
Flame X Control Corp.
P.O. Box 456
Lynwood, CA 90262

"Varapel"
Flecto Company Inc.
P.O. Box 12953
Oakland, CA 94604

"Development and Evaluation of Practical and Self-Help Fire Retardants"
Stanford Research Institute
Menlo Park, CA 94025

"Fireshield 500-P and Fireshield 500-C"
Moore Coatings Company
2322 Briarview
Houston, TX 77077

"Ocean 441, Ocean 477, Ocean 777 with 778 Overcoat"
Ocean Chemical Incorporated
440 Magazine Avenue
Savannah, GA 31402

"Flame-Les No: 10"
E.S. Clark Associates, Incorporated
2720 Park Street, Room 222A
Jacksonville, FL 32205

The use of trade, firm, or corporation names is for the information and convenience of the reader. Such use does not constitute an official endorsement or approval.

MONTANA LOG PRICE REPORT

The State-wide log price report on the following page catalogs recently delivered average log prices to sawmills by species using four geographical areas within Montana. Prices are provided by approximately 35 sawmills operating within the State. The report is compiled through the Extension Forester's Office, School of Forestry, University of Montana, Missoula, Montana 59812.

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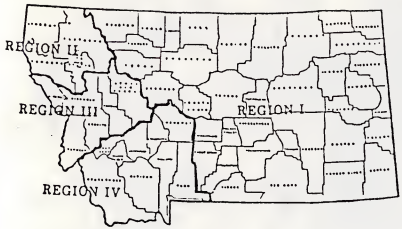

MONTANA SAWLOG AND VENEER LOG PRICE REPORT

JULY-AUGUST 1986

The following information is a summary breakdown of recent past average prices reportedly paid by primary wood processors for logs of the various species listed. These prices are not necessarily a reflection of current market prices. Fair market prices may vary a great deal based on log size, length, quality, contract size and terms, and a number of other factors. All information reported is recent average price per thousand board feet (MBF), Scribner Decimal rule delivered to the mill site, unless otherwise noted.

Prices provided for this report by individual firms are treated as confidential disclosure of the firm's operations. Any requests for mill specific data which have been provided for the log report will be denied.

SAWLOGS Scribner Dec C MBF	REGION I	*	REGION II	*	REGION III	*	REGION IV	*
Species	Avg. Low High		Avg. Low High		Avg. Low High		Avg. Low High	
Ponderosa pine			$200 /$200/$200	F				
(Yellow)	$110/$110/$110	F	$220 /$185/$275	G/F	$198 /$190/$230	G/F		
(Bull)	$ 95/$ 95/$ 95	F	$146 /$115/$195	G/F	$113 /$100/$130	G/P		
Lodgepole pine			$148 /$125/$165	G/F	$148 /$130/$160	G/P	$160 /$160/$160	F
Douglas-fir	$130/$130/$130	F	$142 /$135/$150	F	$156 /$140/$170	G/P	$155 /$155/$155	F
Western larch			$144 /$135/$150	F	$155 /$140/$165	G/P		
Englemann spruce			$156 /$145/$185	G/F	$160 /$155/$165	G/F	$155 /$155/$155	F
Subalpine fir			$142 /$135/$160	G/F	$145 /$130/$155	G/P	$155 /$155/$155	F
Grand fir			$140 /$135/$145	F	$147 /$140/$155	G/P		
Western red cedar			$192 /$175/$225	G/F	$170 /$170/$170	P		
Hemlock			$138 /$135/$140	F/P	$137 /$130/$145	G/P		
White pine			$219 /$180/$250	G/F	$250 /$250/$250	G		

VENEER LOGS Scribner Dec C MBF	STATEWIDE REPORT	
Species	Avg. Low High	Demand Next 60 Days
Douglasfir	$162 / $160 / $165	G
Ponderosa pine (bull)	$150 / $150 / $150	G
Western Larch	$158 / $150 / $165	G/P

* G = Good
F = Fair
P = Poor

MONTANA SPECIALTY PRODUCT

LOG PRICE REPORT

JULY-AUGUST 1986

The following information is a summary breakdown of recent past (highest and average) prices reportedly paid by primary wood processors for logs to be used in the manufacture of specialty wood products. These prices are not necessarily a reflection of current market prices. Fair market prices may vary a great deal based on log quality, contract size and terms, distance to market, green vs. dry logs, and a number of other factors. All information reported is recent average price per piece (log) delivered to the mill site, unless otherwise noted. Please contact buyers before cutting logs to obtain their detailed specifications (log length & diameter). Species other than those listed may be in demand.

Prices provided for this report by individual firms are treated as confidential disclosure of the firm's operations. Any requests for mill-specific data which have been provided for this report will be denied.

RAILS (Lodgepole pine only)

Prices are recorded as the highest reported price over the average reported price.

D.I.B.* small end (in.)	Length (feet)					
	<10	10	12	16	18	20
2.5-3.0	.40 .39	.60 .48	.60 .60	1.30 1.28		
3.0-3.5	.70 .49	.65 .51	1.25 1.00	1.50 1.25	1.50 1.50	2.00 1.75
3.5-4.0	.70 .54	.75 .61	1.25 1.10	1.75 1.41		2.00 1.88
4.0-4.5		.75 .73	1.25 1.08	2.00 1.64		2.00 2.00
4.5-5.0		.75 .75	.90 .90	1.25 1.25		2.00 2.00

*Diameter inside bark.

Demand next 120 days: good, fair, poor

POSTS (Lodgepole pine only)

Prices are recorded as the highest reported price over the average reported price.

D.I.B.* small end (in.)	Length (feet)		
	6.5	7.0	8.0
3.0	.45 .30	.50 .50	.32 .32
3.5	.50 .46	.55 .52	.32 .32
4.0	.58 .49	.50 .50	
4.5	.60 .52	.50 .50	.75 .75
5.0	.60 .53	.80 .73	1.00 .85
5.5	.60 .55	.65 .65	1.00 .90
6.0	.60 .56	1.20 .92	1.30 .90
8.0	.50 .50	.80 .78	1.25 1.11

*Diameter inside bark.

Demand next 120 days: good, fair, poor

POLES (Lodgepole pine and western larch only)

Prices are recorded as the highest reported price over the average reported price.

Top D.I.B.* (in.)	Length (feet)							
	10	16	20	25	30	35	40	>40
3.0		1.25 1.25						
5.0-5.5	1.25 1.25	3.00 2.38						
6.0-6.5	1.75 1.62	3.20 3.10	5.50 5.38	7.50 7.40	9.60 9.55	20.00 15.88		
7.0		4.00 4.00	7.00 7.00	9.25 9.25	11.75 11.75	24.00 20.33	31.00 30.00	37.00 36.50
8.0						29.00 27.00	35.00 34.00	42.00 40.00

*Diameter inside bark.

Demand next 120 days: good, fair, poor

HOUSE LOGS

Prices are recorded as the highest reported price followed by the average reported price (H/A).

Spec*	Top diam. (in.)	Length (feet)			
		< 16	16-25	33-35	> 35
LPF	< 8				26.00/26.00
	9-12			25.00/25.00	38.00/32.00
	13+				50.00/50.00

*LPF = lodgepole pine.

Engelmann spruce and western white pine also in demand.

Most buyers purchase only rot-free, standing trees with a minimum of spiraling.

Demand next 120 days: good, fair, poor

FUTURE OF HOUSEHOLD WOOD BURNERS TOUGH TO CALL

Although there is no certainty in prediction, the use of firewood in Western Montana may increase 60 percent by 1995. This was the conclusion of a study funded by the Montana Department of Natural Resources and Conservation, and carried out by technical consultants who used computers to estimate the various influences that could increase or decrease the use of wood.

The study, conducted by Eco Northwest Ltd. of Helena, notes that the use of wood for home heating declined gradually in Montana from 1880 until 1974. Then, rapidly rising energy costs stimulated a boom in the use of firewood. Between 1974 and 1980, estimated annual firewood consumption in Montana rose from about 100,000 cords to about 315,000 cords.

Copies of the survey, entitled "Residential Wood Fuel Use Assessment," are available on loan from the Montana State Library or by contacting Howard Haines, Montana Department of Natural Resources and Conservation, 1520 East Sixth Avenue, Helena, Montana 59620.

MICROCOMPUTER SAWMILL IMPROVEMENT PROGRAM AVAILABLE

Recover more or pay more...The facts are plain and simple. Raw material costs in lumber production have become a controlling factor in mill profitability. Increasing lumber recovery from a given amount of raw material can reduce manufacturing costs and increase profits. MicroSIP helps sawmill managers indentify operational changes that can increase lumber recovery.

MicroSIP is a set of computer programs that work as an integrated system on IBM PC and compatible microcomputers. The system was developed specifically for sawmill operators by USDA Forest Service utilization foresters.

The technology in MicroSIP is not new. It has evolved from over 13 years of research and 2,000 mill studies conducted under the Forest Service's Sawmill Improvement Program (SIP). It has evolved from a proven system on mainframe computers to a microcomputer system that is more affordable and, therefore, more readily available to the people who need it most.

MicroSIP Features: MicroSIP helps the mill operator analyze the performance of various machine centers in converting logs to lumber. Analyses are based on factors that vary from mill to mill; for example, log scale, sawing method, planer allowance, saw kerfs, and log trim. With data specific to your mill, MicroSIP can help answer questions such as...

What is our current performance in recovering lumber from logs?

What sawing variations are actually occurring by machine? Are we oversizing or undersizing too much? How much can be saved per board?

What can we achieve in lumber recovery with better control under current conditions?

What if we...reduce saw kerfs...decrease planer allowance...reduce board size?

System Requirements: Computer hardware and software you must have to run MicroSIP include:

-IBM PC, XT, or compatible microcomputer;
-256Kb RAM (Random access memory);
-two 360Kb floppy disk drives, or 1 floppy disk and 1 hard disk drive;
-PC- or MS-DOS 2.0 or higher (disk operating system);
-any parallel printer capable of printing in compressed mode (16.5 characters/inch); and
-SuperCalc³ (rev 2.0 or 2.1) spreadsheet software.

Included with MicroSIP: The MicroSIP programs are part of a complete package designed to ensure that the user is able to quickly and accurately apply the techniques to improving mill recovery. Components of the MicroSIP system include:

Training - A 15-minute VCR video cassette presentation on log and lumber sampling.

MicroSIP Diskette - All the MicroSIP programs on a single 5 1/4-inch diskette.

MicroSIP Manual - A comprehensive guide to using the MicroSiP system is provided in a three-ring binder. Tabbed dividers make it easy to find the step-by-step instructions on how to install and use MicroSIP; sample reports; blank data entry forms; history of SIP; and glossary of computer terms.

Support - A list of people that will provide user-support is included with each MicroSIP package. These people are mill operators, government utilization foresters, and educators that understand or are using the system in their daily work. The staff of FORS will also be available to help answer any questions regarding SuperCalc³ or computers in general.

For more information contact Forest Resources Systems Institute, 201 N. Pine St., Suite 24, Florence, Alabama 35630, phone (205)767-0250, or the Market Bulletin Editor.

TRAINING SESSIONS FOR RESTRICTED-USE WOOD PRESERVATIVES

In November 1986, the new regulations concerning distribution, sale and use of restricted-use wood preservatives will go into effect. Regulations and licensing will be required for pentachlorophenal, creosote and inorganic arsenicals.

The Department of Agriculture, in cooperation with the office of Extension Forestry and Department of State Lands, are planning to offer training and certification sessions on September 29-30 in Kalispell and October 1-2 in Helena.

More specific information will be available by the end of July.

COLORADO PASSES FOREST PRODUCTS TRANSPORTATION LAW

During the last legislative session, Colorado passed a law that requires proof of ownership when transporting forest products. Thomas Osterman, Staff Forester for the State of Colorado asked that the law be relayed to Montana companies that transport products to or from Colorado. Forest Products has been identified as any natural part of any plant including, but not limited to, firewood, logs, trees, evergreen boughs, and transplants in commercial quantities. If you would like a copy of this new law, contact the Market Bulletin Editor.

EQUIPMENT FOR SALE

220 Savage log loader (24,000 lb.) 31' boomliue heel 3-53 GM in upper mounted on 63 international with new 450 red diamond. Power steering. $25,000. Contact Nick Marich Logging, Box 131, Heron, Montana 59844, phone (406)847-5512.

For sale: Post & Pole operation on 5 acres of land West of Anaconda, Montana. Five equipment buildings, all necessary equipment. $60,000, or will negotiate for reasonable offer. Family illness necessitates immediate sale, call for details. Eide Realty, 311 East Park Street, Anaconda, Montana 59711, phone (406)563-5223.

For sale or trade:

1. 22B w/371 6sp Allison, rubber mount, hydraulic outriggers, 45' straight boom.
2. 471 engine with Allison transmission.
3. 255 P&H on factory carrier, been rolled over, good parts.
4. Big brush grapple.

Contact Howard Miller, 222 Mullan Road W., Superior, Montana 59872, phone (406)822-4409.

Forest Service type road closure gates with square, telescoping, tubing cross bar. Volume discount available. Contact Turner Mill, 2796 Foothills Road, Kalispell, Montana 59901, phone (406)755-2764 or (406)257-1469.

We can supply truckloads or carloads of prefabricated and/or any preservative treated products such as Bridge Timbers in Structural Grades of Oak, SYP, or DF, Cross Ties, Construction Mats, Poles, Piling, and Heavy Planking, etc. Contact us for difficult or unusual specifications. Call or write Germain Timber Co., P.O. Box 7836, Pittsburgh, PA 15215, phone (412)782-3240.

Due to illness must sell complete Wood Lath Mill; 8 ft bolt saw with 36" insert tooth, gang rip saw with carbide saws, bucking saw and all the electrical equipment. Saw sharpening equipment. Logging equipment that includes John Deere 350B with digging bucket, forks and 12" shear, bobcat with forks, bucket and cork wood grapple. 1958 Chev. 2 ton with flatbed. 500 gallon gasoline tank and miscellaneous parts. Contact Monarch Lath Company, Ed Matye PTR., P.O. Box 101, Monarch, Montana 59463-0101, phone (406)236-5388 evenings 7 p.m. to 10 p.m.

Appalachian Red Oak KD - Stock

Memphis, TN	(#110)	13M' 2C &Btr
	(#107)	20M' 4/4 1C
	(#102)	20M' 4/4 1F all 8'
	(#103)	30M' 4/4 1F RL
	(#105)	T/L 4/4 1F all 14-16'
	(#104)	T/L 4/4 1F 60% 14-16'
Virginia Yard	(#111)	20M' 4/4 White Oak FAS all 8'
Tennessee Yard	(#100)	24M' 4/4 White Oak 1C A/Dry RL 8-12'
	(#101)	10M' 4/4 White Oak 1F A/Dry RL 8-12'

Germain Timber Company, P.O. Box 7836, Pittsburgh, PA 15215, phone (412)782-3240.

LOGGING-CABLE SKIDDERS: Tree Farmer- 1) '80 C6D 19000, 2) '77 C5D Deutz 17500, 3) '76 C5D 14500, 4) '73 C5D 12500, 5) '71 C5D 10000, 6) '70 C5D 8500, 7) JD 440B 11800, 8) JD540A 10800, 9) JD54CB 19800, 10) '79 Clark 666C 18000, 11) '76 Timber-

jack 240D 17000, 12) '76 Timberjack 240D Grapple 18000, 13) '82 Tree Farmer C7D 25500, 14) '76 Timberjack 208D 13000, 15) Used Skidder Parts, axles, rims, 16) Used shear and grapples, 17) 185XL Husky Loader 14500, 18) 141 Husky Loader 8800, 19) Prentice "H" self-propelled 8800, 20) Backhoes, wheel loaders, trucks and numerous skidders located, but not listed. We are Tree Farmer Dealers (New). Ask about used Tree Farmer Forwarders with new Hood Loaders! Call (612)263-3777 at Midwest Tractor Inc., Big Lake, MN 55309, or Ron at (612)295-5037.

PRODUCTS AND SERVICES

1/4" to 2 1/4" dia. x 16 ft. lg. or larger dowels available in lengths up to 10 ft. long. Balls, bases, blocks, electronic parts, handles, knobs, moldings, plugs, reels, rollers, shaping, spools, toy parts, wedges, and wheels. Available in plain, dip spray of tumble finishes. We treat for outside use. Also, Cooper's and Food Processors supplies. Many other wood products to customer specs. Contact Ed Koelbl, American Wood Working Co., P.O. Box 335, Montello, WI 53949, phone (608)297-2131.

4/4 x 1 1/8" x 12" and 4/4 x 1 1/8" x 14" clear eastern white pine, kiln dried, in trailer loads. All on pallets, shrink wrapped. Contact Scott Nussinow, Falcon Rule, Falcon Valley, Auburn, ME 04210, phone (207)784-4041.

We are machine shrink wrapping dead bug killed lodgepole pine firewood in a .82 cubic foot package with a handle for easy carrying. This is a clean, no mess and easy to store package. We are in need of distributors. If interested call or write for more information. We will be happy to send a sample package to any distributor or wholesaler. North Woods Enterprises, P.O. Box 1331, Trout Creek, Montana 59874, phone (406)827-3627.

PLANER VIDEO of New, Efficient, Flexible, Simple, and Inexpensive Concept in Planing, Matching & Molding that is rapidly growing in the U.S. is now available. Complete demonstration of machinery setup and production of several different products. This video is educational, very informative and a tremendous value--$10.00 handling charge and $25.00 (refundable) deposit.
If you are in the business of Planing, Matching & Molding, or plan to enter this market, you will find this quality video to be a very valuable tool. To order, please contact Thom Labrie, Auburn Machinery Inc., 1100 Minot Ave., Auburn, Maine 04210 or call (207)784-4244.

If you wish to advertise a forest product or a piece of wood-processing machinery in this bulletin complete the form below. No charge is made for this service. If you wish to rerun an item, a written request must be submitted before the next issue.

NAME OF PERSON OR FIRM: _____

MAILING ADDRESS: _____

ZIP CODE: _____ PHONE: _____

Type or print your advertisement in the space below, detach and return to:

Department of State Lands
Division of Forestry
Forest Products Bulletin
2705 Spurgin Road
Missoula, MT 59801

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DIVISION OF FORESTRY
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